## Bombardier Safety Standdown September 29, 2016



#### Sunday Morning August 27, 2006

### August 27, 2006













Windy, Cold

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8344 Year - No. 355

Columbia, South Carolina

Friday, December 21, 1973.

Profes Print The States Bd No. Tennish | 1882 Name



2 Sentines - 55 Pages

#### Plane Crashes Near Airport

Wills and Platt Springs roads Thursday while minking a westward up. Price, it is satisfactory condition, another porture, left cital? Photo be genuch to the Cabustica airport. The nation vice precident of the Federal Masie Roberts: Land Blook of Columbia, J. Champell Moure, 36, and the pilot Machael O.

A belongue place crashed in a wooded area between Barthon- Frederick, 25, were killed instactly. Assister beth executive five it, disable

Air Crash Kills Two

Flood Of Bills Sent To Nixon

MALIENCED CAPA Coupred men by Practical School student districts.

West To Push 2nd Med Schoo

BY LEVENA PAGE

# 10-Gallon

'Merry Christmas From The Gri

WASHINGTON CAP: - Every chief | beat who - M a bell loose in William E. Stemm without everybedy. Tw. Morry Christman Error (the Group," Thorn. my, then salved restorate weeing up the her long bolisher weekends for one palls \$6. galacte of gasaline per week.

Depor promised & districts whether or not to order gambine returning for Now Your's Day.

Meanwhile, restrictions on the sumher of days to the week a person run. mive his our any hoing nisoldered, matotal populed to buy unsubsets of Chegress indicates.

Also under consideration in extension of the Sunday but un gooding dated to a: recent day of the week, the material in-

The proposed multilatory excludings were among a feet of 22 energy commencetice measures submitted by fumer Western Say right to Secretarion buildings of colors. oring recorpsing energy regulation, arrest

Passin, who make the lot pestable to the Associated Press Thomas and the fleets were specified by future as these which the administrative warrants. to free to expect if it decides by the sec. during the month-long congressment break without four of a resu, when ComMANY -- 1000 No stead of the pr

Street also discompat a figure statles at the Persons by one of set had been minimary starts Grough a few orders and the seed

#### Limiting Ga Frustrating Lo Columbi

By PET BERNEN

Administration over 1970 III

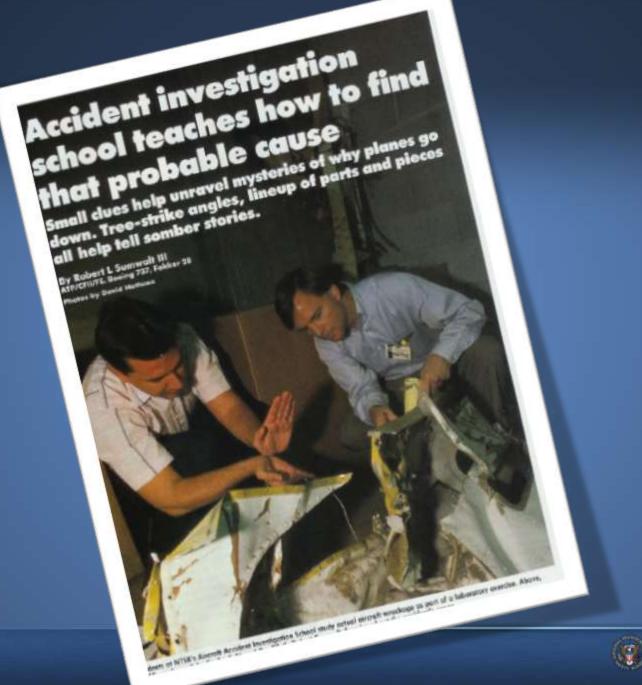




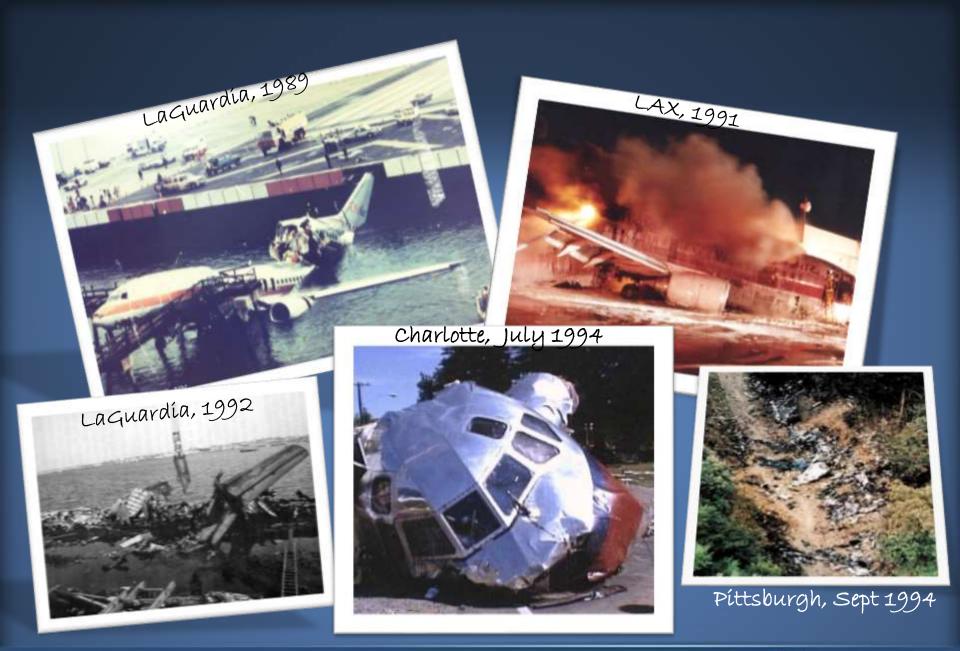
















#### The Background Investigation





#### The Path to Presidential Appointments

White House Office of Presidential Personnel narrows candidate list, checks references and makes single recommendation to the president.



Candidate completes battery of forms in preparation for background check.



Office of the Counsel to the President oversees background check through the FBI, IRS, Office of Government Ethics and the agency's ethics official.



No conflicts found.



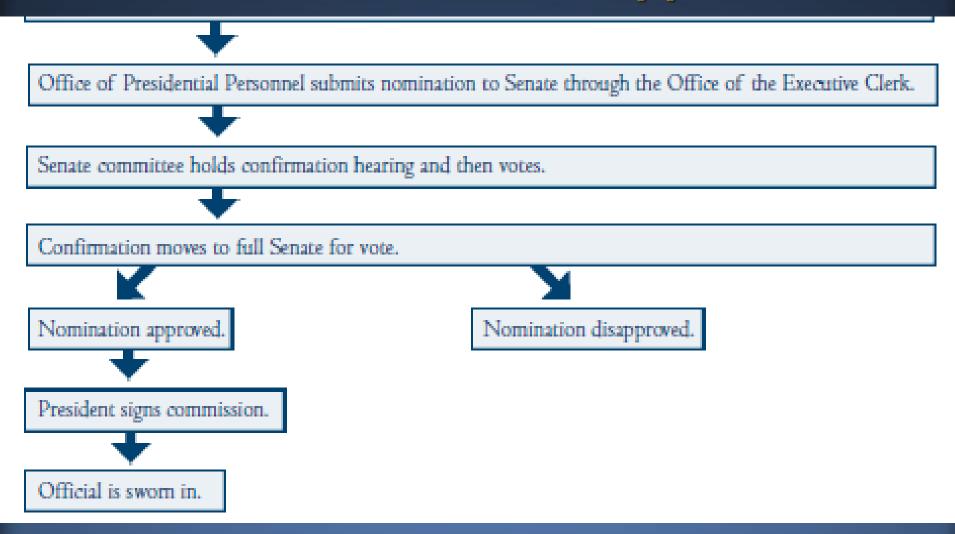
Conflicts found.



Office of Government Ethics and the agency's ethics officer work with candidate to address potential problems or conflicts.

Counsel clears the candidate.

#### The Path to Presidential Appointments





#### August 21, 2006







#### **NTSB Response Operations Center**







#### **Different Types of NTSB Investigations**



**Regional Investigation** 







#### **Different Types of NTSB Investigations**



**Go-Team Investigation** 

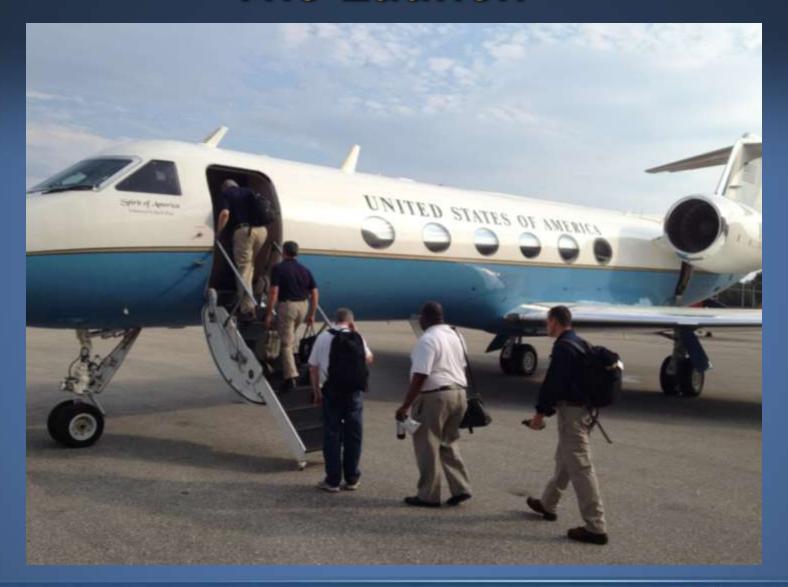








#### The Launch





#### **Enroute**





#### Arrival on Scene





#### **Boots on the Ground**

- Powerplants
- Structures
- Systems
- Operations
- Human performance

- Survival factors
- Airworthiness
- ATC
- Transportation Disaster Assistance
- Meteorology
- Recorders

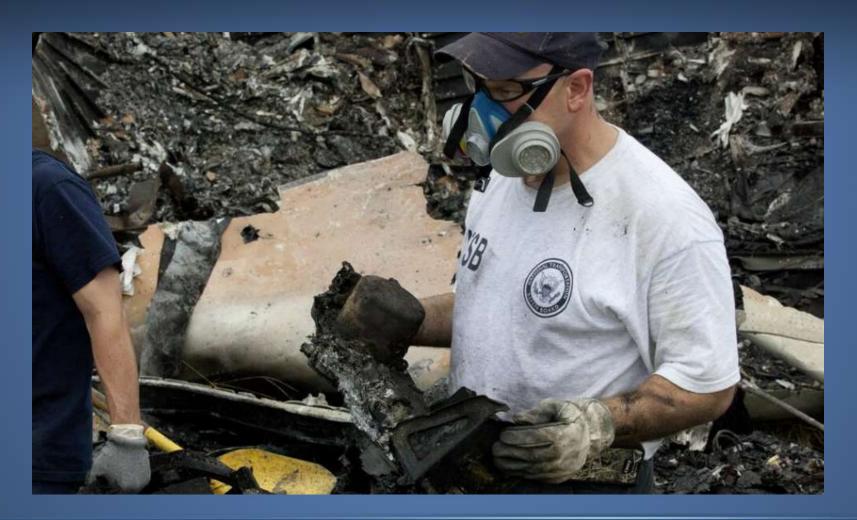


#### The Hunt for ...





#### The "Black Boxes"













#### **Meeting with Elected Officials**





#### **Family Briefings**





#### **Media Briefings**







In the past decade...

... what have I learned?



## First, a few things I haven't learned.



Always have clean clothes when on call !!



"The first rule of survival in Washington is never do or say anything that you don't want to read about on the front page of The Washington Post."





## The one take-away

Insist on

PROFESSIONAL DISCIPLINE

AND INTEGRITY

in your operation.







### Bedford, MA May 2014





### St. Louis, MO September 2007



American Airlines flight 1400



# "I'm ambivalent right now. I got six months to go."

- Captain of AA 1400





"The casual atmosphere in the cockpit before takeoff affected and set a precedent for the pilots' responses to the situations..., eroded the margins of safety provided by the standard operating procedures and checklists, and increased the risk to passengers and crew."

## PSA AIRLINES (D.B.A. US Airways Express) January 2010

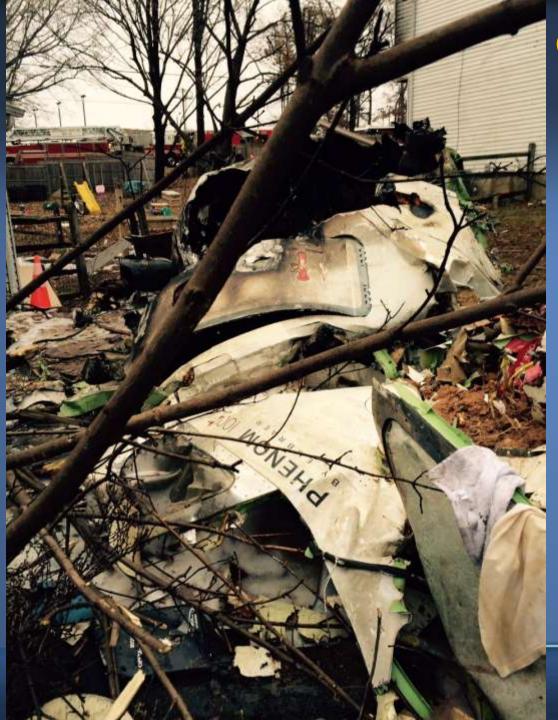




Who	Statement / editorial comment		
F/O	oh we talked about you know we want fifteen acres.		
Capt.	[expletive].		
F/O	the house'll sit kind of in one of the front corners but back up off the road where it can't be seen.		
Capt.	yeahthat's— yeah.		
F/O	and we— she wants a road track built on the property.		
Capt.	aww man that'd be cool as [expletive].		







### Gaithersburg, MD December 2014



### Lexington, KY August 2006





Time	Who	Statement / editorial comment
05:52.11	Capt.	"I'm easy buddy."
05:56:14	Capt.	"run the checklist at your leisure."
05:57:36	Capt.	"Before starting, at your leisure."
05:58:12	Capt.	"Start engines, your leisure."
05:59:42	Capt.	"he said it's okay to turn one at your leisure."
05:59:45 to 06:01:47		Crew engages in two minutes of non-pertinent conversation during engine start
06:03:12	Capt.	"finish it up, your leisure."
06:03:16		First officer initiates and captain participates in, 40 seconds of nonpertinent conversation.
06:05:15	F/O	"churlieser ['at your leisure' spoken very fast], Comair one twenty one ready to go."



#### NTSB Finding



"The flight crew's noncompliance with standard operating procedures... and both pilots' nonpertinent conversation, most likely created an atmosphere in the cockpit that enabled the crew's errors."



# Intentional non-compliance leads to other problems

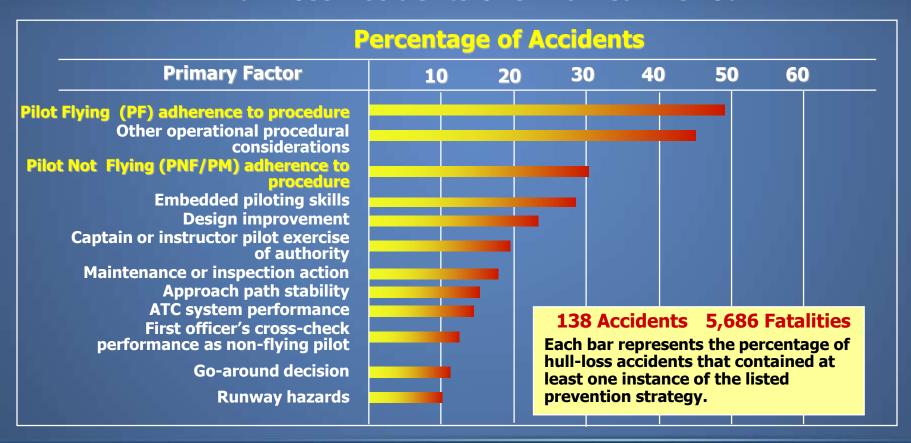
- LOSA data revealed that, compared to crews who followed SOPs, crewmembers who intentionally deviated from procedures:
  - averaged making 3 times more errors
  - mismanaged more errors
  - found themselves in more undesired aircraft situations



#### **Accident Prevention Strategies**

Source: Boeing study of accident prevention strategies

#### **Hull-loss Accidents over 10 Year Period**

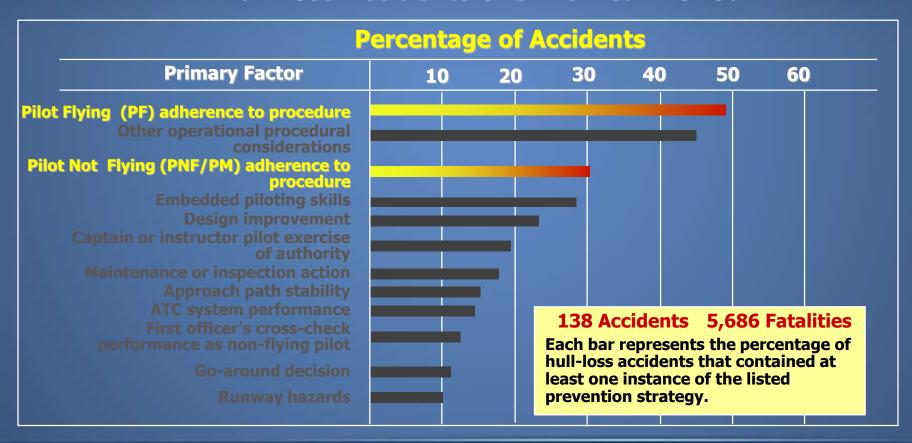




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### | National | Transportation | Safety Board